



city of
CINCINNATI

KENNEDY AVENUE
BRIDGE REPLACEMENT
Department of Transportation
& Engineering

December 5, 2017

INTRODUCTION

PROJECT PERSONNEL

Department of Transportation & Engineering

- Brandon Lecrone, P.E., Senior Engineer
Project Manager
- Bill Shefcik, P.E., Principal Engineer
Bridge Program Manager
- Jeff Stine, R.A., Senior Architect
Project Architect

PROJECT PERSONNEL

Environmental Consultant - AECOM

- Dave Wormald, P.E.

PURPOSE OF THE OPEN HOUSE

- PROVIDE A BASIC UNDERSTANDING OF THE PROJECT
- HEAR FEEDBACK & RECEIVE COMMENTS
- ANSWER QUESTIONS



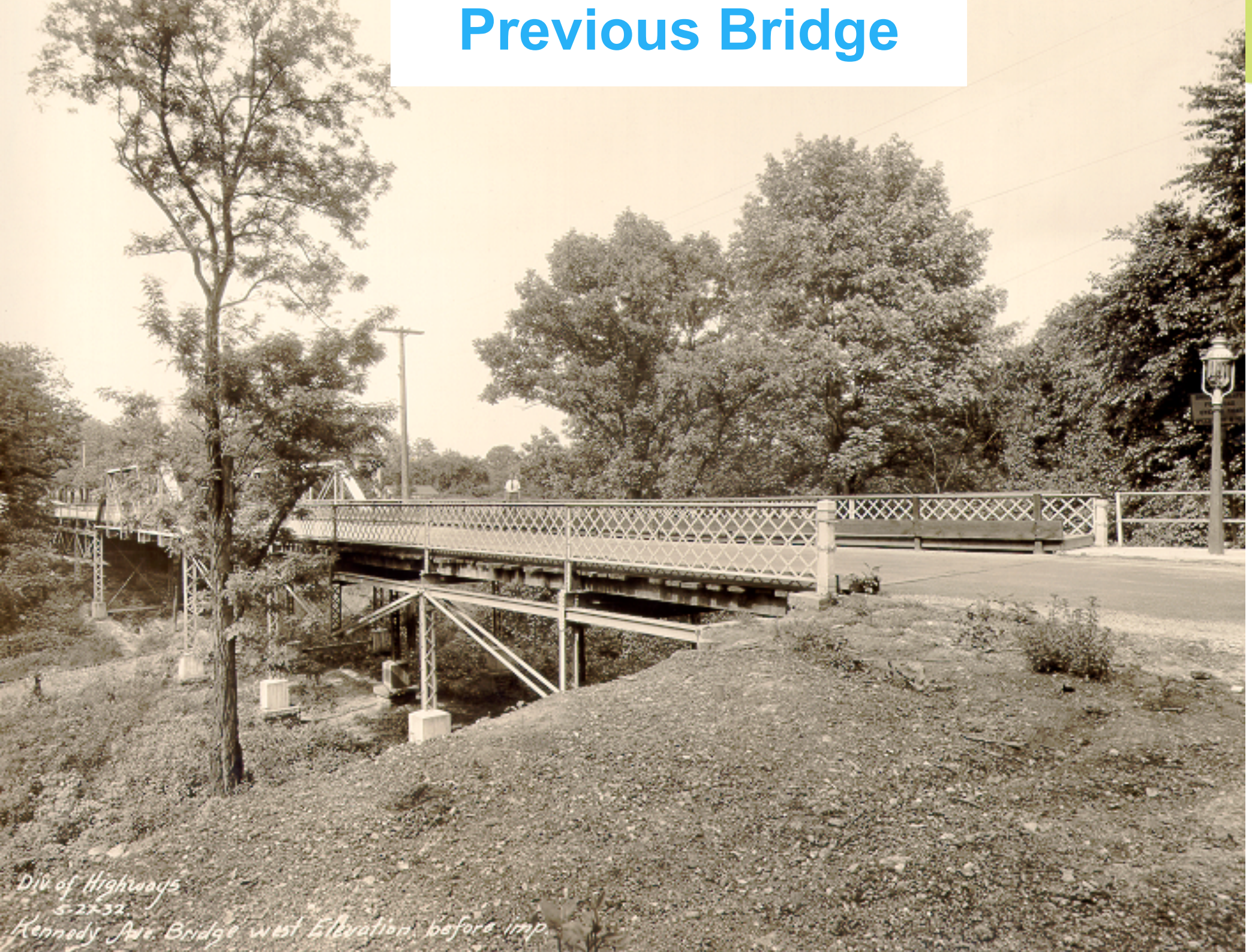


GENERAL PROJECT INFORMATION

BACKGROUND

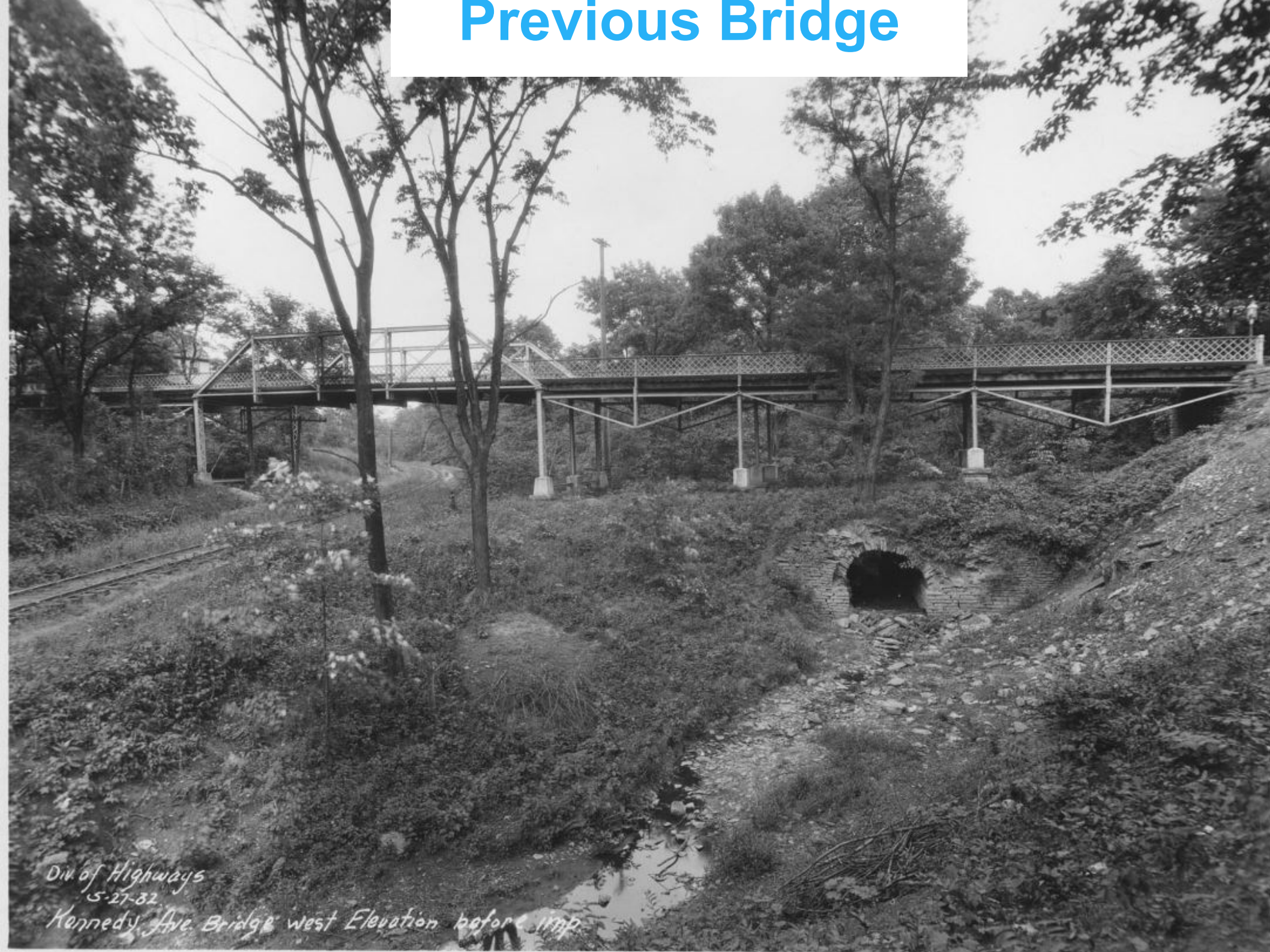
- **Bridge was built in 1932**
- **Last rehabilitation in 1999 (Deck overlay)**
- **Structural repairs in 2015**

Previous Bridge



*Div of Highways
5-2232
Kennedy Ave. Bridge west Elevation before imp.*

Previous Bridge

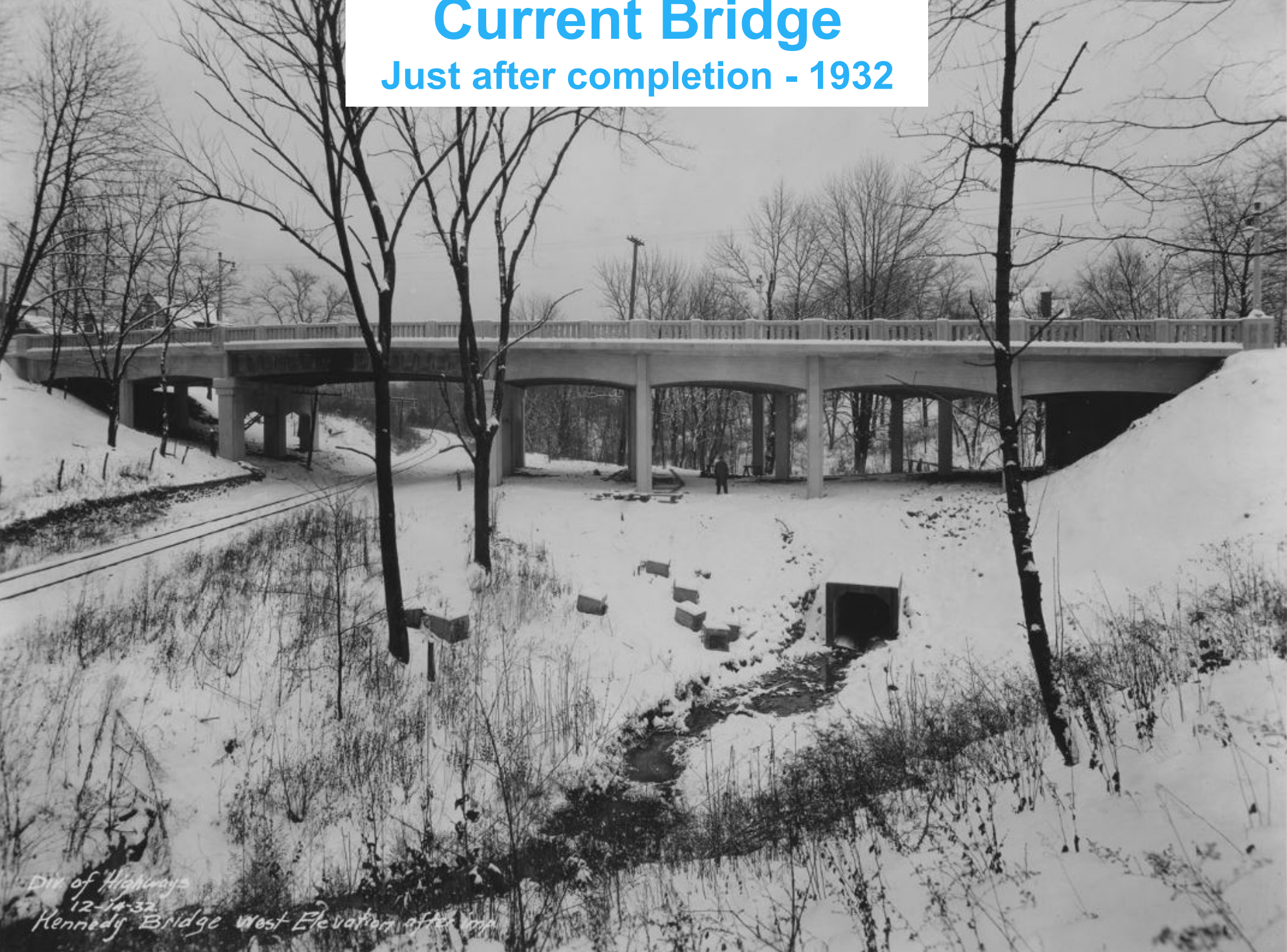


*Div. of Highways
5-27-82*

Kennedy Ave. Bridge west Elevation before imp.

Current Bridge

Just after completion - 1932



Dir. of Highways
12-14-32

Kennedy Bridge West Elevation after m.p.

Current Bridge

2017



EXISTING CONDITIONS

- **Current condition rating “4” (Poor) on a 0 to 9 scale**
- **Classified as Structurally Deficient**
- **Inspected annually**
- **Safe for all legal vehicles**

EXISTING CONDITIONS

- Widespread concrete deterioration
- Bearings are badly corroded and don't function fully
- Cracking of concrete beams, partially due to reduced function of bearings
- Shoring installed on 4 beams (2015 repairs)

CONCRETE DETERIORATION



PIER COLUMN



BOTTOM OF DECK

CONCRETE DETERIORATION



BEARING STRUCTURAL REPAIR

PURPOSE & NEED

- **To replace the existing structurally deficient bridge with a new bridge in order to maintain this link in the transportation network.**
- **The existing 85 year old bridge has exceeded its useful life.**
- **Deterioration is widespread and has advanced to the point where repair or rehabilitation is no longer feasible, and replacement is necessary.**

PROJECT FINANCES

- **Construction Cost – Approximately \$2.9 Million**
- **Construction is funded 100% with Federal grant monies**

PROJECT TIMELINE

- **Complete Design Activities:** **2018**
- **Right-of-Way Acquisition:** **2018-2019**
- **Utility Relocation:** **2019**
- **Construction:** **2019-2020**

DESIGN DETAILS - BRIDGE

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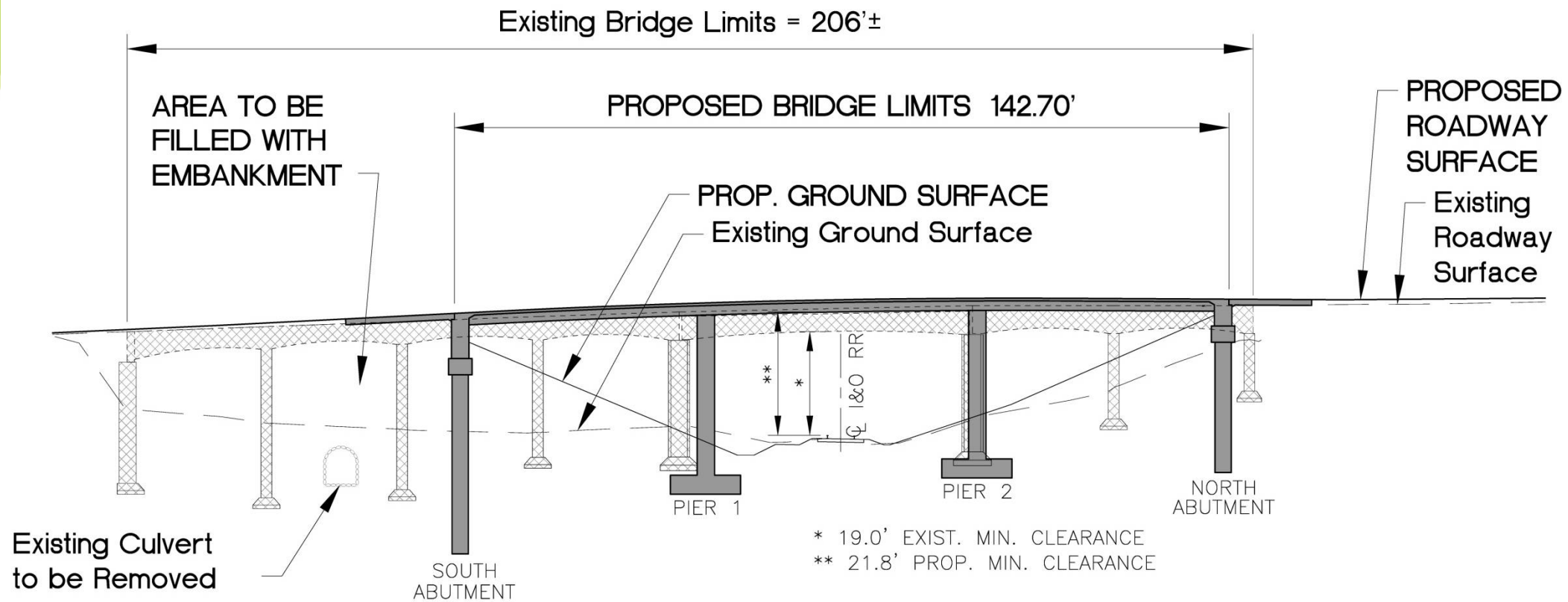
Existing Bridge:

- Length ~206 feet
- Number of Spans 7

Proposed Bridge:

- Length ~143 feet
- Number of Span 3





BRIDGE ELEVATION

 Existing Bridge - To Be Removed

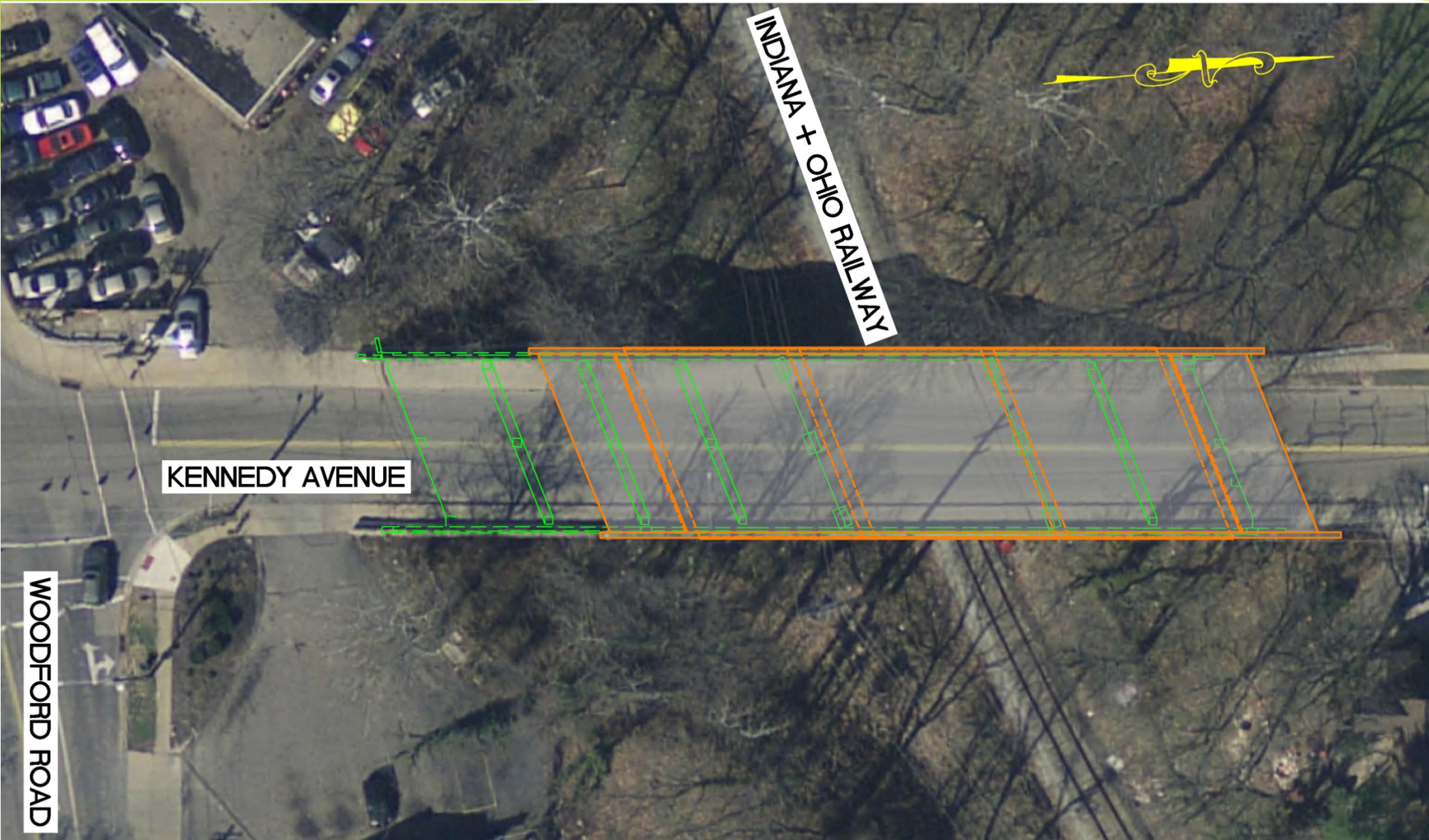
 PROPOSED BRIDGE



KENNEDY AVENUE

INDIANA + OHIO RAILWAY

WOODFORD ROAD



- Existing Bridge
- PROPOSED BRIDGE

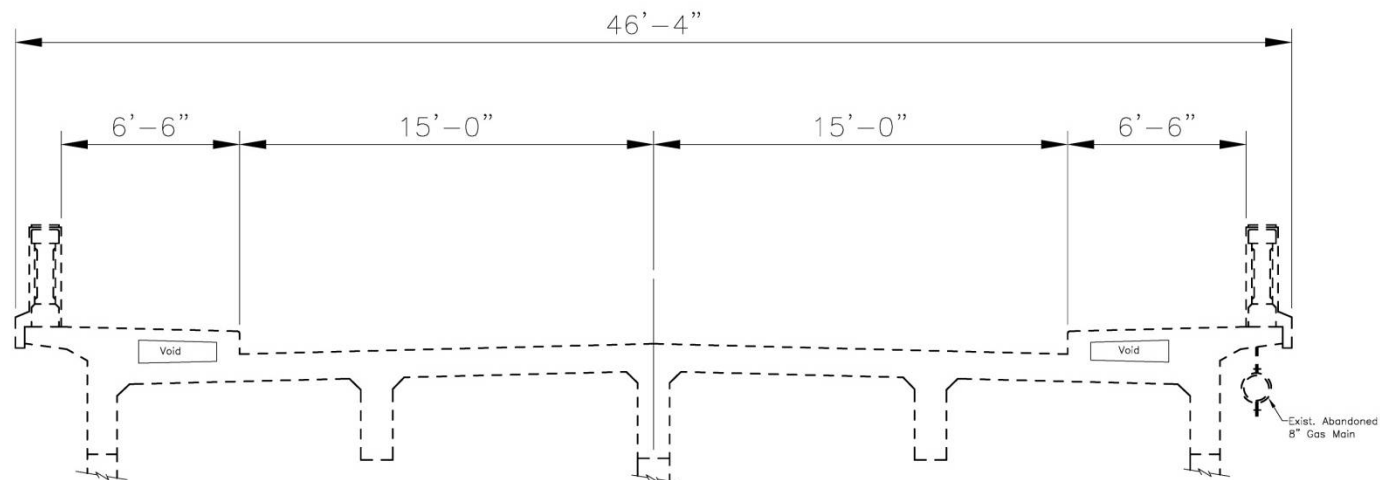
DESIGN DETAILS - BRIDGE

Existing Bridge:

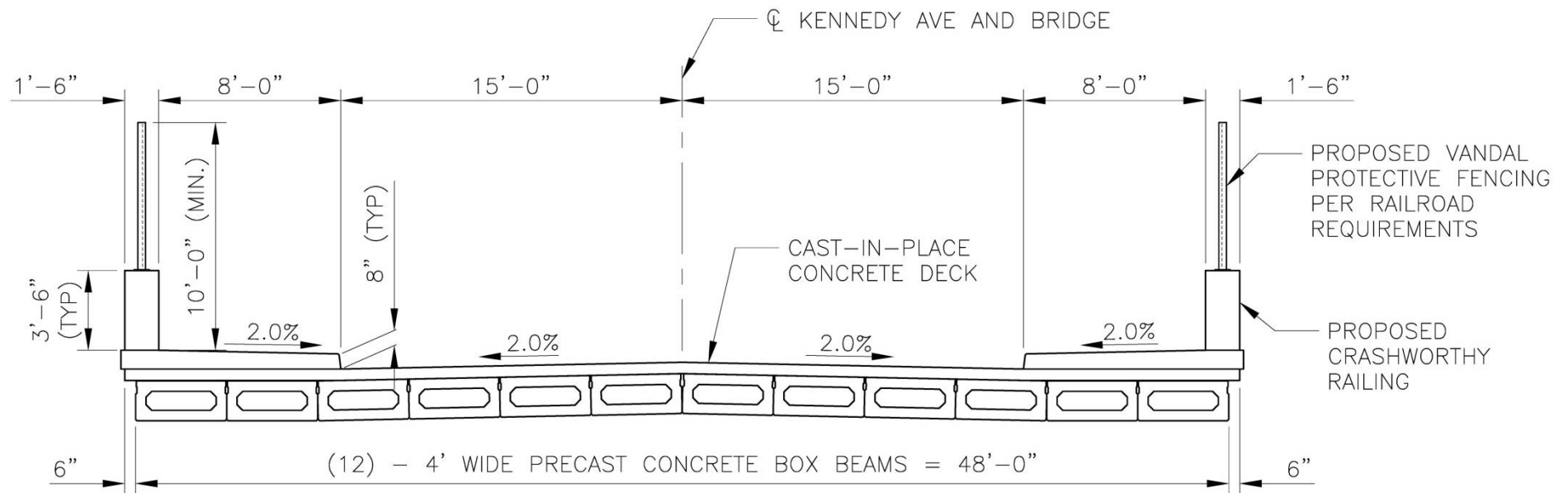
- Roadway width 30 feet
- Number Traffic Lanes 2
- Sidewalks 6.5 feet each side

Proposed Bridge:

- Roadway width 30 feet
- Number Traffic Lanes 2
- Sidewalks 8 feet each side



Existing Typical Section



PROPOSED TYPICAL SECTION

BRIDGE AESTHETICS

Existing Kennedy Ave Bridge



Bridge Railing Systems



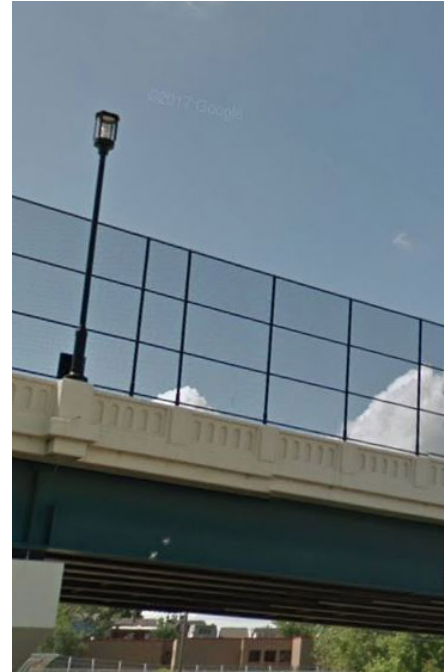
Bridge Terminus Pylons



Bridge Identification Pylons



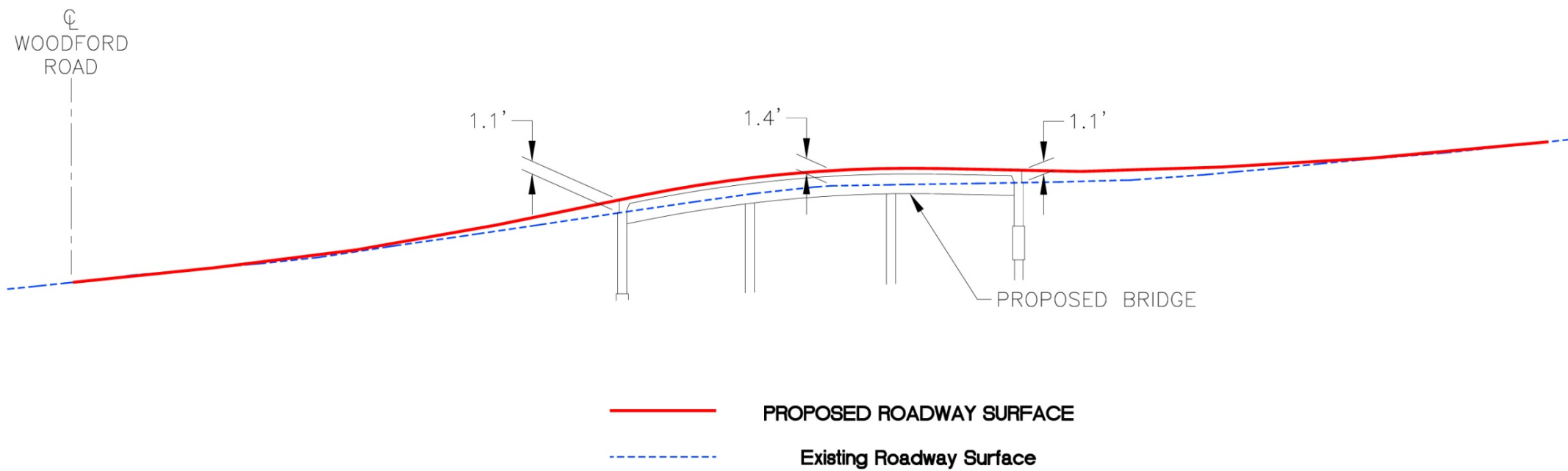
Bridge Vandal Protection Facing Systems (VPF)



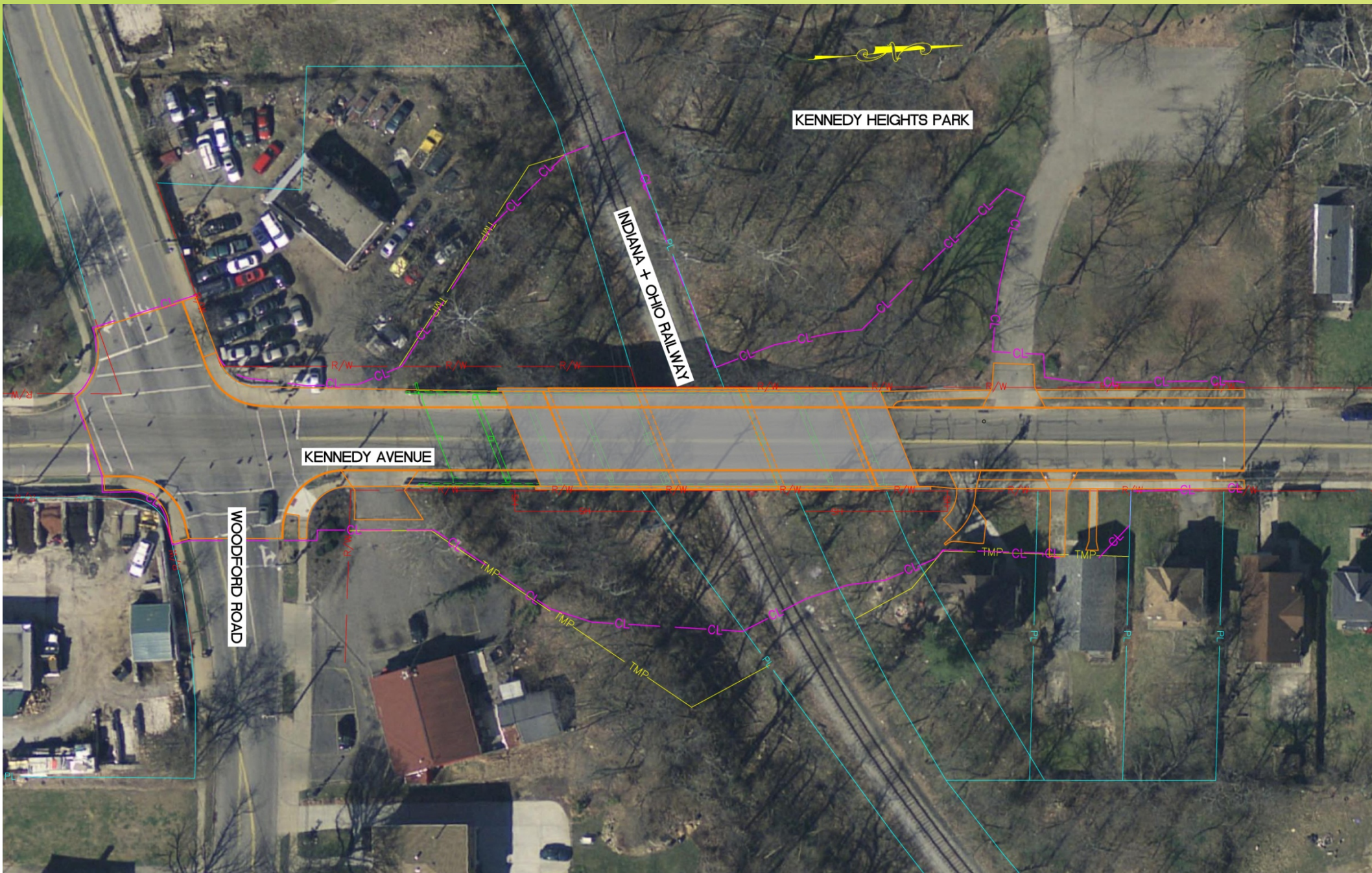
DESIGN DETAILS - ROADWAY

DESIGN DETAILS - ROADWAY

- **Paving of Kennedy Avenue will extend approximately 200 feet from each end of the bridge**
- **Includes intersection at Woodford Road**
- **Roadway Profile will be raised:**
 - **To provide the required clearance over the RR**
 - **Maximum of 1.4' in the middle of the bridge**
 - **Approximately 1.1' at each end of the bridge**



KENNEDY AVE PROPOSED ROADWAY PROFILE



CONSTRUCTION CONSIDERATIONS

BUILD BRIDGE IN PHASES VS. ALL AT ONCE

BUILD IN PHASES

Existing site does not accommodate building in phases

- **Bridge width inadequate**
- **Spacing/Location of existing beams**
- **Width of available right-of-way**

BUILD IN PHASES

Even if phasing were possible:

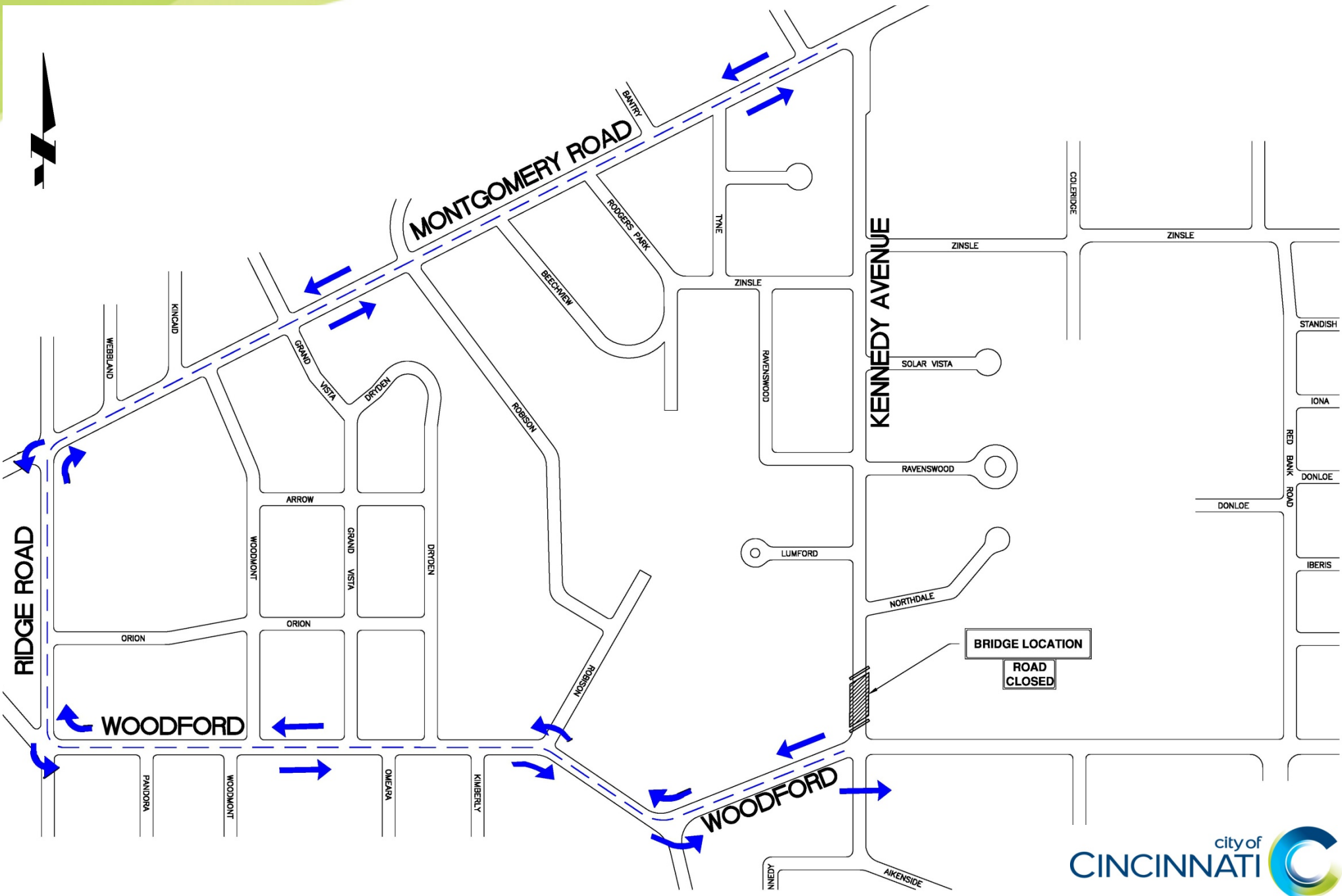
- **Construction duration would nearly double**
 - **1 Construction season → 2**
- **Cost would increase significantly**

BUILD ALL AT ONCE

(SELECTED OPTION)

- **Project will be completed in one construction season**
- **Kennedy Avenue will be closed to traffic**
- **Duration of the closure will be 6 to 9 months**
- **Detour: Woodford→ Ridge→ Montgomery→ Kennedy**

DETOUR ROUTE



ENVIRONMENTAL

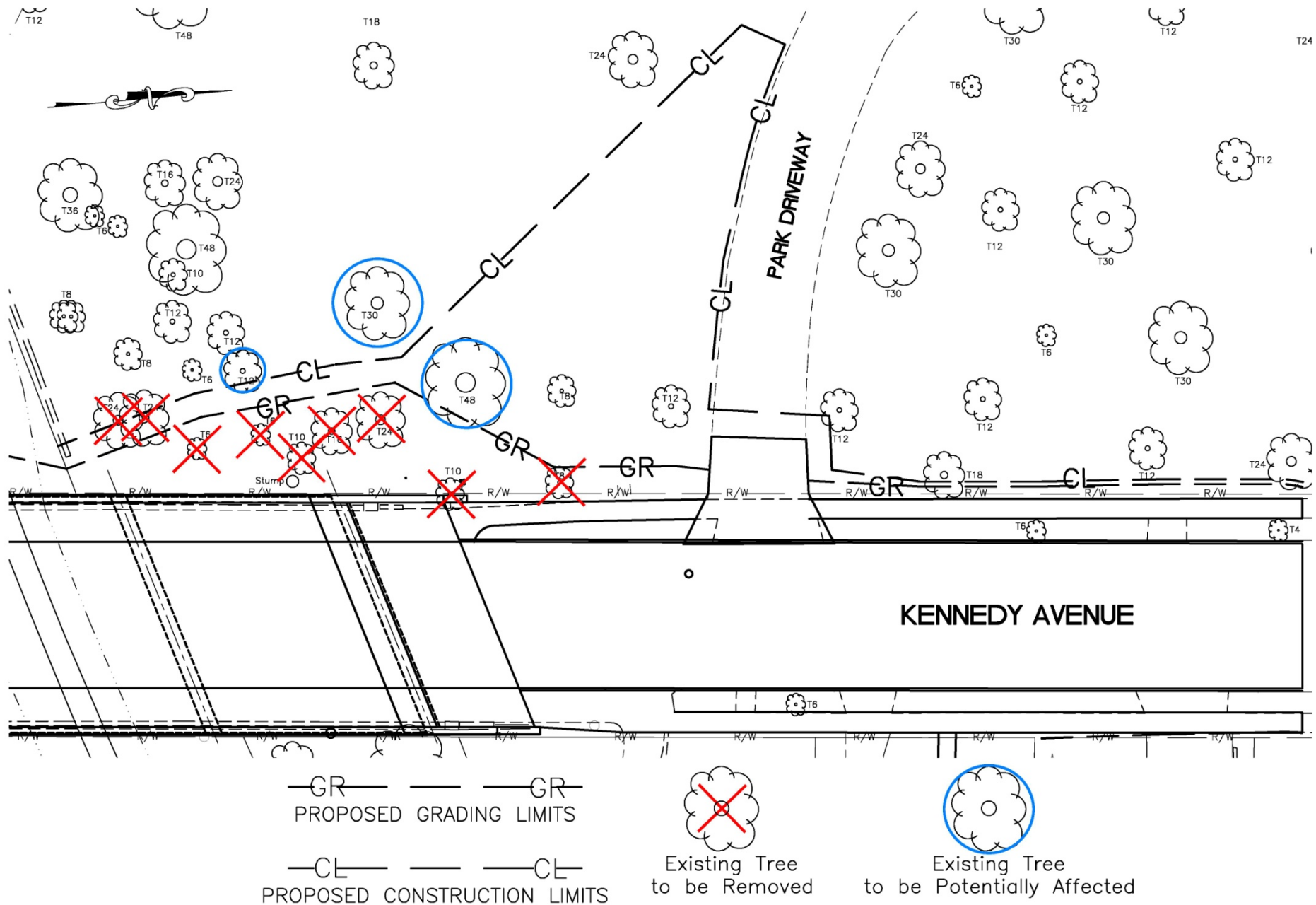
ENVIRONMENTAL

- **Noise & Air Quality** **No Impacts**
- **Environmental Justice** **Temporary Closure of Kennedy Ave**
- **Cultural Resources** **No Impacts**
- **Ecological Resources** **No Impacts**
- **Parks & Recreation (4f)** **De-Minimis Impact (anticipated)**

- **Hazardous Materials**
 - **ESA Screening Completed**
 - **Awaiting Determination for Phase 1 ESA**

- **Relocations** **None**

Parks & Recreation – Affected Trees



Project website address:

www.cincinnati-oh.gov/dote/dote-projects/kennedy-avenue-bridge-replacement

By Navigation:

Go to:

www.cincinnati-oh.gov/dote

- Click on “Projects” on the left hand side
- Click on “Kennedy Avenue Bridge Replacement”

Your Comments:

- **Comment sheets available**
- **Email or call:**
 - **brandon.lecrone@cincinnati-oh.gov**
 - **513-352-6106**
- **For inclusion in the environmental documentation, please submit comments by January 5, 2018**
- **Otherwise, comments can be made anytime**